CLAIMS

- 1. (Currently Amended) A sound diffuser with low frequency sound absorption, comprising:
- a) a body having a front surface configured to diffuse sound waves, and a rear surface; and
- b) means [receiving] <u>permitting</u> sound waves [via] <u>to</u> <u>travel from</u> said front surface <u>to said rear surface through said</u> <u>body</u> for absorbing sound waves below a desired cut-off frequency.
- 2. (Original) The invention of Claim 1, wherein said front surface includes a plurality of divided or non-divided parallel wells.
- 3. (Original) The invention of Claim 1, wherein said front surface includes a two-dimensional pattern of geometrical or irregular shape chosen from the group consisting of cylindrical, conical, pyramidal, polygonal or rectangular.
- 4. (Original) The invention of Claim 3, wherein said shapes are separated by slots or holes.
- 5. (Currently Amended) The invention of Claim 4, wherein said [receiving] permitting means [is formed in] comprises said slots or holes.

- 6. (Original) The invention of Claim 1, wherein said front surface comprises a compound curved shape.
- 7. (Currently Amended) The invention of Claim 1, wherein said [receiving] permitting means comprises a plurality of open slots.
- 8. (Currently Amended) The invention of Claim 1, wherein said [receiving] permitting means comprises a plurality of holes.
- 9. (Previously Amended) The invention of Claim 8, wherein said holes comprise a first set of holes and a second set of holes smaller than said holes in said first set of holes.
- 10. (Original) The invention of Claim 9, wherein said sets of holes are arranged in rows of holes.
- 11. (Original) The invention of Claim 10, wherein each row of holes is located within a well of a diffusive surface.
- 12. (Original) The invention of Claim 10, wherein each row of holes is located across a plurality of wells of a diffusive surface.

- 13. (Currently Amended) The invention of Claim 1, further including an absorptive material overlying [a] <u>said</u> rear surface of said body.
- 14. (Original) The invention of Claim 13, wherein said absorptive material is made of a porous absorptive material chosen from the group consisting of fiber glass, mineral wool, cotton and foam.
- 15. (Previously Amended) The invention of Claim 7, wherein the slots are narrow enough to provide measurable low frequency absorption.

16. (Deleted)

- 17. (Previously Amended) The invention of Claim 15, wherein said slots have a width of 0.1 millimeter to 1 millimeter.
- 18. (Previously Amended) The invention of Claim 16, wherein said holes have a diameter of 0.1 millimeter to 1 millimeter.
- 19. (Original) The invention of Claim 1, wherein a crossover frequency is chosen below which sound absorption takes place and

above which diffusion takes place in accordance with required usage.

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